ENGLISH

HITACHI VIDEO TAPE RECORDER

VT-M331E(CT)
VT-M335E(VPS)

SHOWVIEW

Photo VT-M335E (VPS)

Instruction manual
To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

- ShowView is a trademark applied for by Gemstar Development Corp.
  ShowView system is manufactured under licence from Gemstar Development Corporation.

VHS
PAL

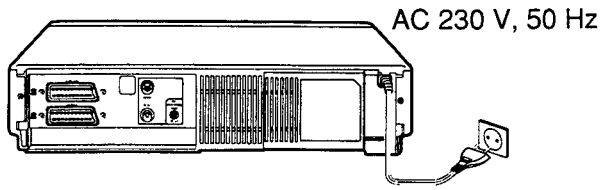
P 4708425 © Hitachi, Ltd. 1994

KS-H (Y)

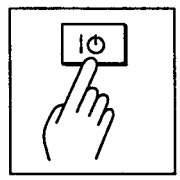
INFORMATION FOR YOUR SAFETY

Please read the following instructions carefully before using this VTR.

Mains supply: AC 230 V, 50 Hz only



- The Operate button located on the front of the VTR switches the VTR on and off, leaving the clock/ timer facility unaffected.



- As to the indication of the Operate button, "I" shows ON and "⏻" shows electical power standby.
- The Operate button is secondarily connected and does not separate the apparatus from the mains supply in the switched-off position.

On safety

- Do not remove panel covers by unscrewing. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.
- Should any solid object or liquid fall into the cabinet, remove the mains lead and have it checked by qualified personnel before operating it any further.
- To disconnect the mains lead, pull out the plug itself. Never pull the lead.
- If the unit is to be left unattended for a long period and it is not intended to use the timer recording function, it is recommended that the VTR be switched off and the plug removed. If you intend to record during your absence, remember there is no necessity for the TV receiver to be switched on.

This product is manufactured to comply with the radio interference requirements of EEC Directive 76/889/EEC & 82/499/EEC, 87/308/ EEC.

Note: It is permissible to record television programmes only in the event that third party copyrights and other rights are not violated.

Notes on colour broadcasting systems

1. This unit can receive programmes which are broadcast on the B/G-SECAM system, and record and play back the programmes in black-and-white.
2. When the cassette recorded in above 1 is played back on a SECAM or PAL recorder, a black and white picture will be obtained.
3. When a cassette recorded on a SECAM recorder or a SECAM prerecorded cassette is played back by this unit, a black and white picture will be obtained.
4. This unit cannot be used in France. Please use a SECAM recorder there.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.

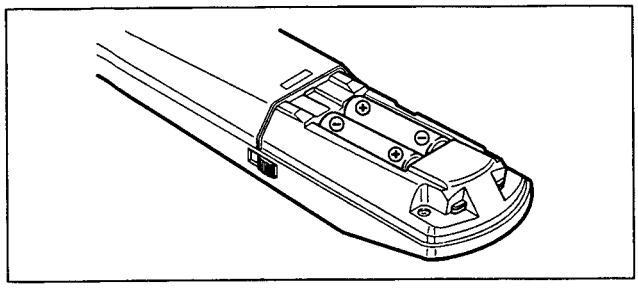
DIFFERENCE

The VT-M335E and VT-M331E have completely the same functions except that the VT-M335E have a VPS function but the VT-M331E does not.

REMOTE OPERATION

This tells you how to insert batteries into the remote control handset and how to operate your VTR remotely.

Power source of infrared remote control handset



The infrared remote control handset is powered by two batteries (size IEC standard R6). The life of the batteries is about a year although it depends on the number of times the handset is used. Replace the batteries when operation is not possible or when the distance becomes too small.

Remote operations

To operate this VTR with the remote control handset, set the VTR 1/VTR 2/TV select switch on the handset to the VTR 1 position, then point it at the receiver on the front of the VTR.

- The EJECT, ⏪, ▷, ⏩, ⏸, □ and ⏭ buttons can control your VTR even if the VTR1/VTR2/TV select switch is in the TV position.

VTR 1/VTR 2/TV switch

The remote control handset provided is designed to operate up to two VT-M331E or VT-M335E units and 13 different types of TVs.

- Refer to page 16 when using the handset to operate the TV.
- For dubbing your own tapes, as an example, the recording VTR and play back VTR can be controlled by a single handset. However, this VTR has been preset to be controlled as the VTR 1. In order to set this VTR so it can be controlled as VTR 2, follow the "REMOTE CODE 1/2" section on page 13.

PRE-TUNING OF BUILT-IN TV TUNER

This VTR incorporates a complete TV tuner (just like your normal TV) and can be pre-tuned to receive up to 49 TV programmes.

1 **Turn on the TV and the VTR, then tune the TV to the video programme number as described on page 4 of the QUICK SETUP GUIDE.**
If you connect the VTR and TV using a 21-pin Scart connector lead, select the 21-pin Scart input of the TV.

2 **Press the MENU button.**
The menu appears on the TV screen.

3 **Press the button ②.**
The menu disappears from the TV screen and the VTR's display changes to the channel preset display

4 **Press the TV PROG button** to select the programme number (one of 01 through 49) to be memorized.

We recommend you to set the programme number, ready for "ShowView" timer programming.

Notes:

- See "ShowView" programming on page 7.
- A programme number which has already been preset does not flash.
- Programme numbers "01" through "49" can be now selected consecutively by pressing the TV PROG button (either up or down). In this case, you can use any number except for "25" through "29". Programme numbers "25" — "29" are used exclusively for "Pay Television" broadcasts.

5 **Press and release the button ⏩ or ⏪** to start searching for a broadcast TV station.

⏩: Searches from low frequency to high frequency.
⏪: Searches in the reverse order.

Note: Press the ⏩ button; stations are scanned in the order VHF (2-12) → UHF (21-69) → CATV (S1-S41) → CATV(U1-U5); the colon (:) appears when scanning CATV stations.

6 **Press button ⏺ to store it on this programme number when the picture from the station to be preset appears on the TV screen.**
"– –" will be displayed and the sound will come on.
Note: If the picture appears a little noisy you can fine tune the signal after storing by pressing the ⏪ or ⏩ to get the best picture. After fine tuning for the best picture press ⏺ button to store again.

7 **Repeat steps 4 through 6 for other stations.**

8 **After having completed pre-tuning to all stations, press the MENU button twice.**

VHF (2-12), UHF (21-69) & CATV Stations Direct Preset

Press the 10 key buttons on the remote control handset instead of the procedure described in step 5 to preset desired VHF and UHF stations.
To preset channel 22 in programme number 01, for example, press the TV PROG button to display the programme number "01" (in step 4) then press ② ② on the handset. Then press ⏺ button to store again.
Press the ENTER/CATV button, then press ① ⑧ in this order to preset CATV channel 18.

Eliminating Unwanted Preset Stations

You can rearrange the desired stations by eliminating unwanted preset stations for programme up/down tuning.

1 **Press the MENU button, and then ②.**
The VTR display changes to the channel preset display.

2 **Press the TV PROG buttons** until an unwanted station is found.

3 **Press the COUNTER 0000 button.**
The programme number flashes, indicating that the station has been erased from memory.

4 **Repeat steps 2 and 3 until all unwanted stations have been erased.**

5 **After eliminating them, press the MENU button twice.**

CASSETTE TAPES

Only use video cassettes with the VHS mark in this VTR.

Insertion

Push the cassette through the door until the VTR mechauism pulls it into the compartment. The operate automatically turns on and the indicator 📼 turns on when the cassette is in place.

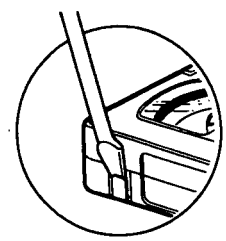
Removal

Press the EJECT button on the remote control handset or the button ■/⏏ on the VTR.
The cassette will come partially out of the compartment so you can pull it out.
- The indicator 📼 turns off when the cassette is ejected.
- Cassette can be ejected with the operate on or off.

Remember that:
– The VTR automatically enters the play back mode when a cassette without a safety tab is inserted.
– The VTR automatically ejects the cassette if the REC or REC/IRT button is pressed when a cassette without a safety tab is in the VTR.
– Be sure to check the safety tab before inserting a cassette for the above reasons.

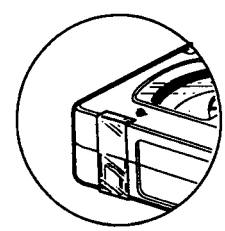
To avoid erasing a recording

Break off the safety tab using a screwdriver or similar tool



To re-record on a cassette which has its safety tab removed

Cover the hole with cellophane tape



PLAY-BACK

Start point: Turn the TV set on and select the video programme number.

1 Insert a cassette.
Note: When a cassette (with its safety tab removed) is loaded, play-back starts automatically.

2 Press the button ▷.

During play-back you can use the following features.

Still play-back

Press the button ⏸ to stop the picture on the screen during play-back.
Press the button again to reset to normal play-back.
If the screen "jitters" vertically, this can be improved by pressing the TRACKING buttons.

Frame advance

Press the button, ⏭ to advance the picture to the next frame during still play-back.
Pressing and holding the button ⏭ advances the frames continuously.

Slow function

Press the SLOW button during play-back, and the tape will be played back at slow speed.
Then use the SLOW SPEED buttons to vary the play-back speed.

Visual search

Press either the ⏪ or ⏩ button during play-back.
Pictures can be viewed at high speed in either the forward or reverse direction. Press the button again (or press the button ▷:) to return to normal play-back.

Play-back using shuttle ring

Use of the shuttle ring allows many different kinds of play-back — slow-motion play, normal play, double-speed play, forward search, reverse play, reverse double-speed play and reverse search.
Note: If the shuttle ring is operated in the stop mode, the VTR enters the fast forward or rewind mode.
The shuttle ring is turned during play-back , turning the ring to the positions indicated gives the special effects indicated.
Release your hand from the shuttle ring for normal play.

3 Press either the button □ or ■/⏏ to stop play-back.

Notes:
- If there is a noise bar on the picture during still or slow motion play, press the SLOW button and then either of the TRACKING buttons until the noise is reduced.
- To prevent tape damage, the VTR will switch from the still/slow mode to the stop mode after about 5 minutes.

Auto Tracking

When play-back is started, the auto tracking function operates and adjusts tracking automatically so the picture is optimized.
- Auto tracking may not operate correctly when the tape is scratched or the recorded condition is poor. In this case, press a TRACKING control button (▼ or ▲) to adjust tracking.
- If the AUTO TRACKING button is pressed after operating a TRACKING control button (▼ or ▲), auto tracking operates again.
- The auto tracking function does not operate with tapes recorded in the LP mode. Adjust the tracking manually.

RECORDING TV PROGRAMMES

1 **Insert a cassette.**

Note: Be sure to check that the safety tab is not missing . If it is removed, the VTR is set to the play-back mode automatically.

2 **Select the programme** to be recorded by pressing the TV PROG buttons or two number buttons.

3 **Press the REC or REC/IRT button.**

Now, recording starts.

If you want to avoid recording unwanted material, **press the ⏸ button.** Press the button again to continue recording.

To prevent tape damage, the VTR will automatically switch from record/pause to the stop mode after about 5 minutes.

4 After the recording has been made **press the button ☐ or ■/⏏.**

INSTANT RECORDING TIMER (IRT)

1 Ensure the time is correct in the VTR's display.

2 **Start recording as described in "RECORDING TV PROGRAMMES".**

3 To start the IRT recording **press the REC or REC/IRT button again.**
The recording time is then indicated in the display.
Press the REC or REC/IRT button until you select the required recording time, the time changes in hours and minutes in the following sequence; 0:30, 1:00, 1:30, 2:00, 3:00, 4:00.
During recording the remaining time is displayed.
At the end of the recording time, when the display shows 0:00, the VTR will automatically stop recording.

To stop recording during IRT

Either, press the OPERATE button and then stop button (☐ or ■/⏏) within 10 seconds;
or, press the REC or REC/IRT button until the VTR's display changes from recording time to the clock time and then press the stop button ☐ or ■/⏏.

TIMER RECORDING

The built-in 24-hour timer permits the unattended recording of up to 8 preselected programmes within a period of 1 year, including daily and weekly programmes.
In additional to the conventional timer programming procedure, this VTR incorporates a new programming procedure called "ShowView".

This VTR cannot record in the LP mode.
When tapes recorded in the LP mode are played back the picture and sound may not be normal. However, this does not indicate a fault.
Please see auto tracking feature, page 5.

1 Make sure that the clock shows the present time correctly.

2 **Insert a cassette.**
Be sure to check that the record safety tab is not missing. If the safety tab is missing, recording will not begin.

3 **Programme the timer.**
See pages 7 to 11 for details.

4 **Press the OPERATE button (OFF).**

To interrupt a recording after it starts press the Operate button and then the Stop button within 10 seconds.
If a cassette with its safety tab snapped off is inserted, if will be ejected automatically and the indicator ⏲ in the VTR's display will start flashing when operate is turned off. In this case, insert a cassette with its safety tab in place or cover the hole with cellophane tape.
Also, if a cassette is not loaded in the VTR, the indicator ⏲ starts flashing.

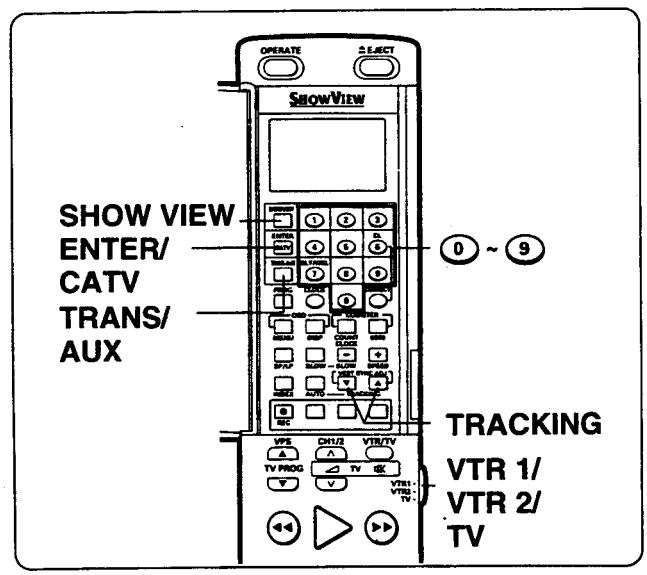
Programming the timer

This VTR incorporates two programming procedures for timer recording.
One is conventional and the TV programme No., start time, stop time, recording date, etc.. must be input, and the other is called "ShowView" and up to 9 digits must be input.

Programming the timer using "ShowView"

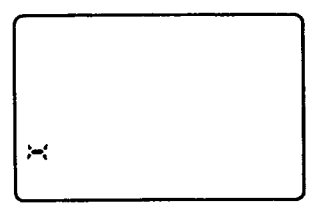
Things to know before starting programming.

- To find the "ShowView" number, look in the TV section of most newspapers or TV guide magazines.
- Check time and date are correct.
- You have about one minute to complete each step of the procedure. If you do not proceed to the next step within this time, all entries are erased and you must start again.

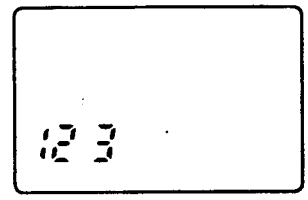


1 **Set the VTR1/VTR2/TV select switch to VTR1.**

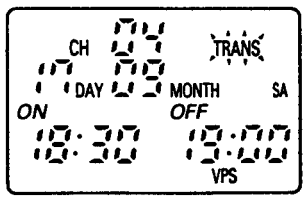
2 **Press the SHOWVIEW button.**



3 **Enter the "ShowView" number** from the TV guide or newspaper etc. for the programme you want to record, by using the number buttons.



4 After entering the "ShowView" number, **press the ENTER/CATV button.**
The programmed details appear.



Changing the TV programme Allocations

When you enter the "ShowView" number, the programmed details will appear on the remote display.

1. If you change the TV programme allocation, press the CORRECT button once.
   The first digit of the TV programme number starts flashing.
2. Then enter the correct TV programme number.
3. Press the ENTER/CATV button.
   Now the programme number has been memorized.

Notes:

- If you change the TV programme allocations by following the above steps, the TV programme number will be automatically written with the alternated programme number when you programme hereafter.
- If you want to record from an external video equipment connected to the Scart socket, press the TRANS/AUX button to change the TV programme number to "L1".
- If selecting decoder input, select 25 to 29 (See page 15).

If you wish to change the end (OFF) time, press the TRACKING button ▲ or ▼. The end (OFF) time can be changed by up to 60 minutes in 10 minutes intervals.

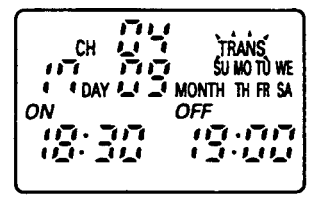
Notes:

- Use of "ShowView" numbers. "ShowView" numbers only record programmes at the times shown in the TV guide.
  The VTR timer will not follow the TV programme if the time is changed for any reason (e.g. delayed due to a previous programme).
- When you press the ENTER/CATV button, "VPS" will appear.
  The VPS function is provided only with the VT-M335E.
  If you do not want to use this function, press the TV PROG (▲) button to switch off the VPS indicator.
  Since the VT-M331E does not have the VPS function, ignore letters "VPS". If this indicator is confusing, press the TV PROG (▲) button to switch it off.

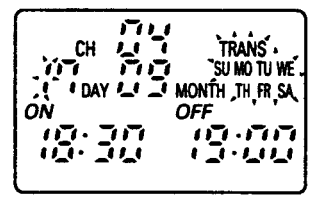
5 **Select the type of programme you want to record.**
If you are programming the timer for one time recording, skip this step.

To record at the same time every day of week

Press the 7 (DLY/WKL) button once to display all days.



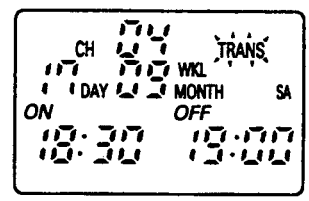
If you want to change the first recording date, press the CORRECT button repeatedly until the first digit of day starts flashing. (If the flashing cursor passes the first digit of day, press the CORRECT button repeatedly again until the flashing cursor reaches the first digit of day.)



Then select the first recording date using the number buttons.

To record on a specified day at the same time each week

1. Press the 7 (DLY/WKL) button twice.
   The "WKL" appears.



2. Press the 7 (DLY/WKL) button repeatedly until the desired day of the week you want to record appears.

6 **Press the TRANS/AUX button** to transfer the programmed details to the VTR.
The operate may be on or off when transferring the programmed details.
The VTR shows the timer programme number for a few seconds.
If the TV is turned on and tuned to the video channel, the programmed details appear on the TV screen for a few seconds.

7 **Press the CLOCK button** to switch the display panel back to the clock/calendar display.

8 If you want to programme other event, repeat steps 1 to 7.

9 To activate the VTR's timer and make a recording at the preselected time, be sure to **press the OPERATE button (OFF).**
Of course a cassette which has an intact safety tab must be inserted.

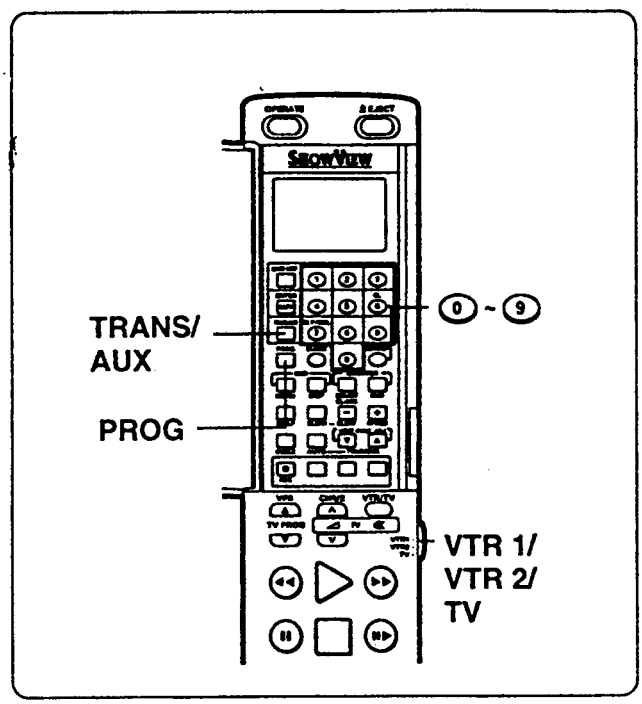
Operating notes:

- If you have entered a wrong number in step 3. "Error" will appear on the remote display when the ENTER/CATV button is pressed. In this case, enter the correct number again.
- If the TRANS/AUX button is pressed when all the programme numbers that the VTR can store are occupied, a "FULL" indication will appear in the display on the VTR and the information transferred will be rejected.
- See page 11 for recalling and clearing the programming from the VTR memory and for programme priority.

Programming the timer without using "Show View"

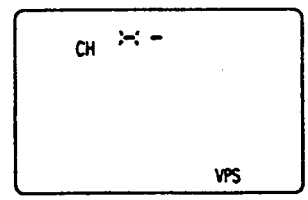
Things to know before starting programming

- While you are programming the timer, the display panel on the handset will prompt you through the procedure.
- Always press "0" before a single-digit channel, hour and minute etc.
- You have about one minute to complete each step of the procedure. If you do not proceed to the next step within this time, all entires are erased and you must start again.
- You can correct an error in the programme any time before the last step by pressing the CORRECT button repeatedly until the digit to be corrected flashes and then enter the correct digit.
- Check time and date are correct.



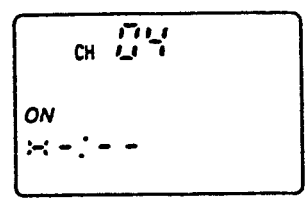
1 **Set the VTR 1/VTR 2/TV select switch to VTR 1.**

2 **Press the PROG button.**



Note: When you press the PROG button, "VPS" will appear.
The VPS function is provided only with the VT-M335E.
If you do not want to use this function, press the TV PROG (▲) button to switch off the VPS indicator.
Since the VT-M331E does not have the VPS function, ignore letters "VPS". If this indicator is confusing, press the TV PROG (▲) button to switch it off.

3 **Select the TV programme number** to be recorded.
For example, press 04 for TV station 4.



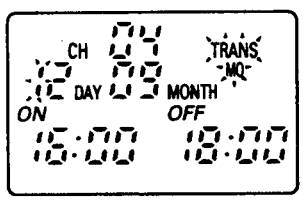
To record video and audio signals from external equipment via the Scart socket on the back of the VTR, or VIDEO IN/AUDIO IN sockets on the front of the VTR press the TRANS/AUX button so that "L1" is displayed in the display panel in place of a programme number.
When you press the TRANS/AUX button, "L1" or "L2" will appear. Ignore "L2" because it is not concerned with recording in this model.

Note: If selecting decoder input, select 25 to 29 (see page 15).

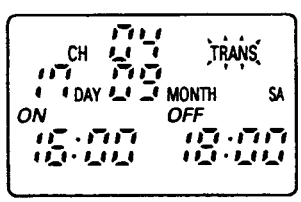
4 **Select the start time.**
For example, press 1 6 0 0 for 16:00 (4:00 p.m.).

0:00 for midnight 12:00 for noon

5 **Select the stop time.**
For example, press 1 8 0 0 for 18:00 (6:00 p.m.).

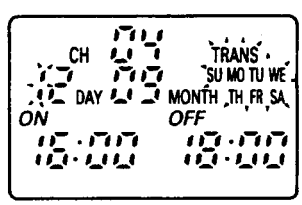


6 **Select the date for recording.**
To record on a single day up to one year ahead.
For example, press 1 7 0 9 to begin recording on the 17th of september.



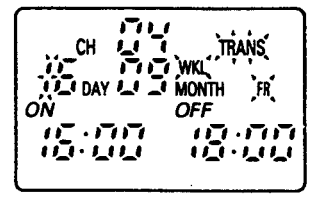
To record at the same time every day of the week

Select the first recording date using the number buttons. **Then press "7" [DLY/WKL] button once** to display all days.



To record on a specified day at the same time each weak

Press the "7" [DLY/WKL] button repeatedly until the desired day of the week you want to record appears.



7 Now, programming has been completed to record one event.

Press the TRANS/AUX button while aiming the handset at the receiver on the VTR.

The operate may be on or off when transferring the programmed details.

The VTR shows the timer programme number for a few seconds.

If the TV is turned on and tuned to the video programme number, the programmed details appear on the TV screen for a few seconds.

8 **Press the CLOCK button** to switch the display panel on the handset back to the clock/ calendar display.

9 If you want to programme other programmes, repeat steps 2 to 8.

10 To activate the VTR's timer and make a recording at the preselected time, be sure to press the OPERATE button (OFF). Of course a cassette which has an intact safety tab must be inserted.

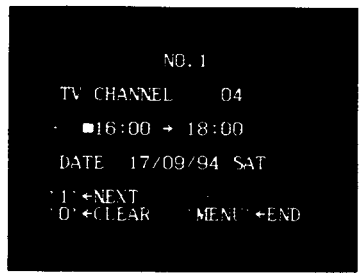
Operating Notes:
- If your timer programme has a TV programme channel number that you have not preset in the VTR, "Err" is displayed on the VTR display when you try to transfer this programme to the VTR. In this case, correct the channel then transfer the data to the VTR again.
- If the TRANS/AUX button is pressed when all the programme numbers that the VTR can store are occupied, a "FULL" indication will appear in the display on the VTR and the information transferred will be rejected.

Recalling and clearing the programme from the VTR's memory

1 **Turn on the VTR and TV**
Be sure that the TV is set to the video programme number.

2 **Press the MENU button.**
The OSD menu appears on the TV screen.

3 **Press the "1" button (PROGRAMME REVIEW).**
The TV screen will display the information you entered for the lowest programme number for 10 seconds.
Press "1" again if you want to view the next programme information immediately.



4 To clear a programme, **press the "0" button** when the programme information you want to clear is displayed.
One event timer programme data is erased from the VTR's memory when the timer recording is finished, but daily and weekly programmes remain in the VTR's memory even after the timer recording is finished.

5 When you finish reviewing the programmes, **press the MENU button** to switch off the on-screen display.

VPS (Video Programme System) FUNCTION (only for VT-M335E(VPS))

The VT-M335E (VPS) incorporates the VPS function.
If the VTR is tuned to a TV station transmitting a VPS signal, the VTR automatically takes any delay, earliness or extension of the programme into account and can record the specified programme.

For example, assume that you programme the timer for a football game on station 8 from 19:00 to 20:45 on Saturday and the football game which is broadcast is changed to 21:00 to 23:00, the VPS function works and the VTR records the football game automatically from 21:00 to 23:00.
When the VTR is tuned to a station transmitting a VPS signal, "VPS" automatically appears in the display of the VTR.
Programming the timer for unattended recording automatically turns on the VPS function.

NOTES:
1. To switch off the VPS function, press the VPS button once during programming of the timer so the "VPS" display disappears. Pressing the button again turns VPS on.
2. Always programme the timer for one TV programme to record the programme with the VPS function turned on. If you programme the timer for a football game and a movie on station 3 sequentially from 10:00 to 14:00 for example, only the football game will be recorded but the movie will not.
   In this case, programme the timer with the VPS off or input the other programme using another programme number to turn the VPS function on again.
3. When the VTR is tuned to a station transmitting a VPS signal but the signal conditions are poor, "VPS" will disappear from the display.
   In this case, programme the timer with VPS turned off. If you programme the timer with VPS turned on, the VPS function does not operate normally.

SPECIAL CHARACTERISTICS

Linear time counter

Press the COUNT/CLOCK button to select the linear time counter display. Every time the button is pressed, it changes the VTR's display between the clock time display and time counter display.

Counter memory function

This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

1. **Start recording or playing back a tape.**
2. **Press the COUNT/CLOCK button** to display the time counter in the VTR's display.
3. At the point where you want play-back to start, **reset the tape counter to "0:00:00" by pressing the 0000 button.**
4. Continue to play or record.
5. **Press the button** □ or ■/⏏ when recording or play-back finishes.
6. **Press the button** ⏪.
   The tape will stop automatically at approximately the "0:00:00" position.

Automatic rewind

The VTR automatically rewinds the tape when the end of tape is reached.
To prevent accidental erasure, the VTR does not rewind the tape during timer recording.

Rewind shut off

If the OPERATE or ⏻ button is pressed during the rewind operation, the operate will be turned off automatically after the tape has been completely rewound.
If the time counter is turned on, the VTR will stop rewinding and switch off at the specified position.

Mode lock function

Press the CORRECT button and button number 6 on the remote control handset simultaneously. The VTR mode is locked and "L OC" appears in the VTR display and also "( )" is displayed on the TV screen.
When the VTR operating mode is locked, the VTR accepts remote control operations but it does not accept any operations from the buttons on the VTR. To release the VTR lock, press the CORRECT button and button "6" at the same time again or press the OPERATE button on the handset.

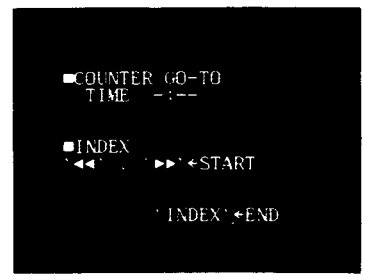
Tape remaining display function

When you start playback, recording, fast forward or rewind with the OSD turned on, the remaining time appears on the TV screen as shown on the right for approx. 5 seconds.

Index function

The cassette tape may be recorded using the tape indexing feature for rapid location of any section.

1 **Press the INDEX button** when a cassette is loaded and the VTR is in the stop mode.



2 **Press the button ⏪ or ⏩.**
The tape will be rewound or fast forwarded until an index mark is detected.

3 When the VTR has located an index mark, it will enter the play-back mode for approximately 15 seconds.

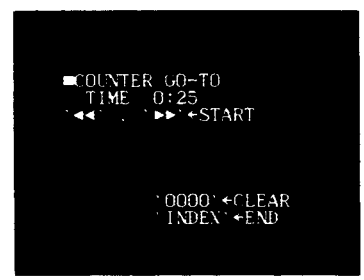
4 When you see the programme you want to watch, **press the button ▷** to start play-back. The INDEX indicator will disappear from the TV screen.

COUNTER GO-TO function

The VTR will automatically run from anywhere on the tape (either forward or backward) for a certain time using the time counter.

1 **Press the INDEX button** when a cassette is loaded and the VTR is in the stop mode.

2 **Press the number buttons (0 to 9)** to enter the amount of time (hours and minutes) you want to run the tape (either forwards or backwards).



Then press the button ⏩ to run the tape forwards or the button ⏪ to run the tape backwards.

3 The VTR will automatically fast forward or rewind the tape to locate the point on the tape you have chosen, and begin playing back the tape.

MENU FEATURES

Pressing the MENU button will show you various displays.

1 **Turn on the operate switches of the VTR and the TV, then set the TV to the video programme number.**

2 Point the remote control handset at the receiver on the front of the VTR.
Press the MENU button.
The menu will appear on the TV screen.
Press a numeric button to select the required display.
Refer to the procedure shown below.

Checking (reviewing) the programme information

Press "1".
The TV screen will display the information you entered for the lowest programme number for 10 seconds.

Language selection

You can change the language of the messages displayed on the TV screen.
1. **Press "3".**

2. Press the numeric button corresponding to the language you want.

DEMO (OSD demonstration)

Press "4".
The picture demonstrating the OSD effects are each displayed for about 10 seconds.

OSD [O] or [–]

Press "5" to change the On-Screen Display setting.

[O]: Whenever you change the mode, the new mode is automatically displayed on the TV screen for a few seconds.
[–]: The OSD will be switched off and nothing will be displayed on the TV screen even when the DISP button is pressed.

RENTAL PLAY [O] or [–]

Press "6" to change the Rental Play setting.

[O]: The VTR will automatically start play-back when a cassette with its safety tab removed is inserted into the VTR.
Then the VTR will enter the rewind mode when the tape reaches its end or when the VTR plays a non-recorded section for approximately 30 seconds. After rewinding the tape to its beginning, the VTR will eject the cassette and turn the operate off.
[–]: The rental play feature is switched off.

ENDLESS PLAY [O] or [–]

Press "7" to change the Endless Play setting.

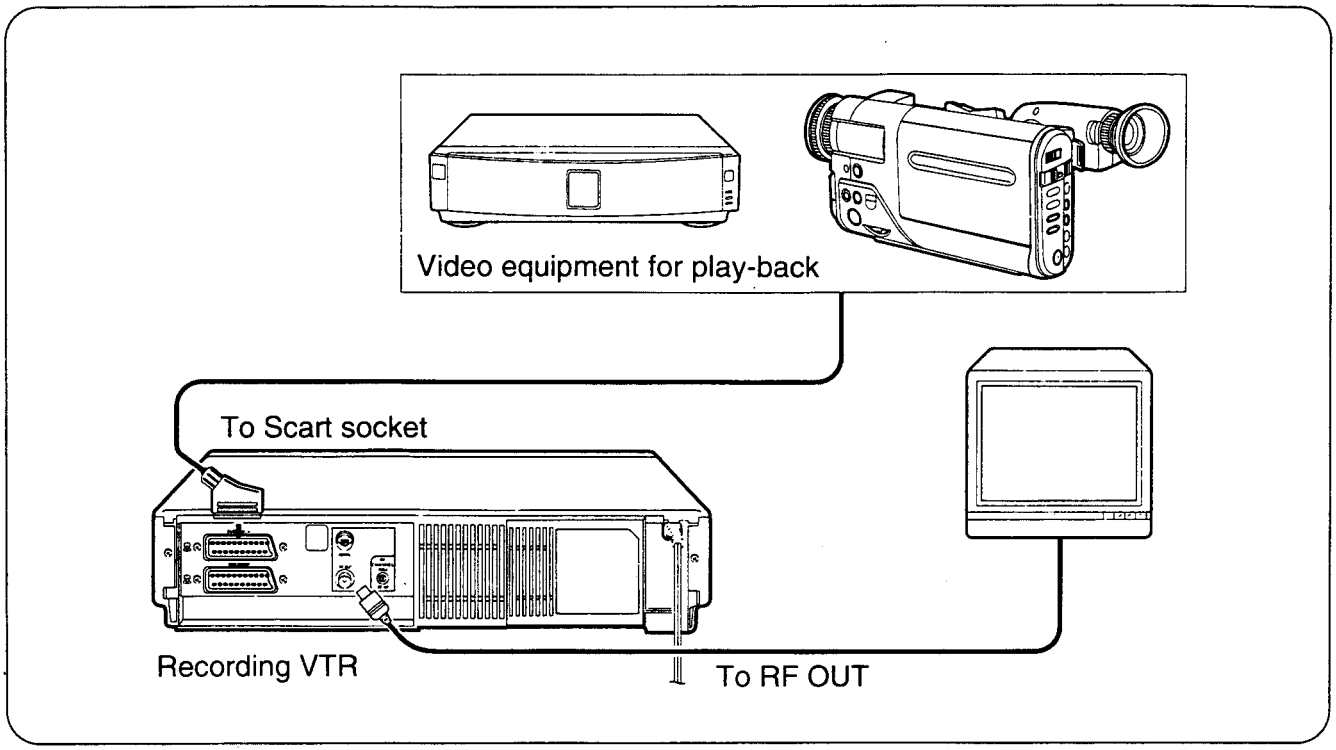
[O]: You can play the tape from the beginning to the end repeatedly. While in the endless play mode, you can perform still play, frame advance, visual search, etc., however, this does not mean the endless play feature is switched off.
[–]: The endless play feature is switched off.

REMOTE CODE [1] or [2]

Press "8" to change the Remote Code setting.

[1]: Your VTR will respond to the "VTR 1" position on the handset.
[2]: Your VTR will respond to the "VTR 2" position on the handset.
The VTR will only respond to the remote code setting [1] or [2] you have selected. If you select [2], you must set the VTR 1/VTR 2/TV switch on the handset to the "VTR 2" position before the VTR will respond to the handset.

EDITING



Tape Dubbing

1 **Connect the second video equipment to this VTR as shown above.** (Refer to the manual of second video equipment for connection.)
In this case, the TV must be connected to the RF OUT terminal of this VTR.

For tape dubbing, you can also connect the playback VTR to the VIDEO IN and AUDIO IN sockets on the front of the VTR instead of the Scart socket. If a VTR is connected to the Scart socket in this state, you will not be able to see the picture or hear the sound from the VTR connected to the Scart socket.

2 **Insert a blank cassette** into the VTR for recording, and the source cassette into the play-back VTR.

3 **Press the TRANS/AUX button** to select the "L1" position if you use this VTR as a recorder.

Note: When the VIDEO IN and AUDIO IN sockets are used, press the TRANS/AUX button to select the "L1" position after connecting a VTR to them.

4 **Press the REC button** on the recording VTR and Play on the play-back VTR.

5 To edit out unwanted material, **press the Pause button** on the recording VTR while it is recording at the appropriate time. Press the Pause button again to resume recording.

6 To end tape dubbing, **press both Stop buttons.**

Synchro Editing

Synchro edit makes tape copying easy by connecting two compatible VTR's with the optional synchro edit cable.

1 **Connect the second VTR to this VTR as shown above.** After that, when this VTR is used as the recording VTR connect the EDIT IN/OUT socket of this VTR to the SYNCHRO OUT socket of the play-back VTR.
If this VTR is used as the play-back VTR, connect the EDIT IN/OUT socket of this VTR to the SYNCHRO IN or CAMERA PAUSE socket of the recording VTR.

2 **Press the TRANS/AUX button** to select the "L1" position.

3 **Insert the cassette** that you want to copy in the play-back VTR. **Locate the place on the tape you want to begin copying and set the VTR to the play-pause mode.**

4 **Place a cassette** with its safety tab intact in the recording VTR. **Set the recording VTR to the recording-pause mode.**

5 **Press the Pause button** on the play-back VTR to start copying the tape. Both VTRs will start together.

6 **Press the Pause button** on the play-back VTR again when you want to interrupt copying the tape. Both VTRs will enter the pause mode.

7 If the next segment you want to copy is located at some distance away on the tape, use the Fast forward, Rewind, or Play button on the play-back VTR to locate the place on the tape you want to begin copying again. Then set the play-back VTR to the play-pause mode. Press the Pause button again and both VTRs will begin copying.

8 **Press the Stop buttons** on both VTRs when you are finished.

OPERATING THE VTR WHEN A "PAY TELEVISION" DECODER IS CONNECTED

Connect the TV, VTR and "Pay Television" decoder and then preset the "Pay Television" programme frequency into the VTR tuner.

1 **Turn on the power of the TV, VTR and decoder.**

2 **Perform steps 1 – 4** in "Pre-tuning of built-in TV tuner" on page 3 to select one of station numbers 25 – 29.

3 **Press buttons ⓪ – ⑨** of the remote control to select the number of the "Pay Television" programme which you want to memorize in the station number.

4 **Perform steps 6 – 8** on page 4 to memorize the number of the "Pay Television" programme in the station number.

Now, the "Pay Television" programme frequency has been preset.

To record the "Pay Television" programme while viewing it

1. Turn on the power of the TV and VTR.
2. Set the TV to the channel for VTR (video channel).
3. Press the TV PROG button of the VTR to select the "Pay Television" programme.
4. Start recording.

To record the "Pay Television" programme while viewing a programme other then the "Pay Television" programme

1. Turn on the power of the TV and VTR.
2. Press the TV PROG button of the VTR to select the "Pay Television" programme
3. Press the TV PROG button of the TV to select the programme to be viewed.
4. Start recording.

HOW TO OPERATE YOUR TV BY USING THE REMOTE CONTROL HANDSET

This remote control handset is designed to operate 13 different types of TV's. You must first programme the handset to match the remote system of your TV.

1 **Install the batteries in the handset.**

2 **Turn on your TV.**

3 **Set the VTR 1/VTR 2/TV select switch to TV.**

4 **Press the OPERATE and CORRECT buttons** at the same time.
"01 TV" appears in the display.

Point the handset towards the front of your TV, then **press and hold down the Volume (∧ or ∨) button.**
If the volume of the sound from your TV changes, your TV can be controlled by this handset. Press the CLOCK button to clear the "01 TV" in the display.
The buttons on the handset shown below will now control your TV.
If your TV does not change volume, follow the next procedure.

5 **Press the TRACKING button ▲.**
"02 TV" appears in the display.

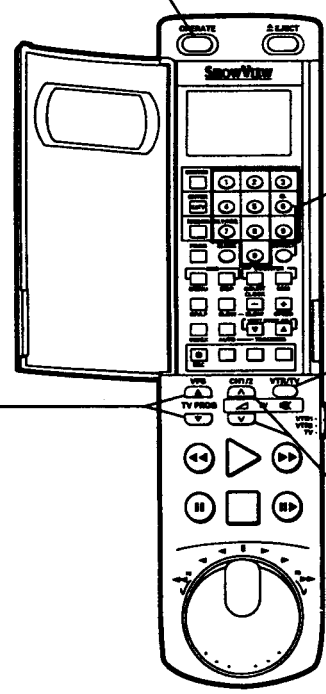
6 Point the handset towards the front of your TV, then **press and hold down the Volume (∧ or ∨) button.**
If the volume of the sound from your TV does not still change, press the TRACKING ▲/▼ button and try "03 TV", "04 TV"..."14 TV".

7 After programming the TV code number, **press the CLOCK button** to return to the normal remote display.

Most buttons on the handset will not control the TV unless the VTR 1/VTR 2/TV select switch is set to TV.
Be sure to check that the VTR 1/VTR 2/TV select switch is set to TV when you control your TV.

OPERATE Button
- Press to turn on your TV.
- Press again to turn off your TV.

TV PROG ▲/▼ Buttons
- Press TV PROG (▲ or ▼) to change the TV programme number.



Number Buttons 0 – 9
- Depending on the type of TV, these buttons can either control the TV or not.

Mute Button
- Press the Mute button to quickly reduce the volume to the minimum level without affecting the picture.
- To restore the sound, press the Mute button again.

Volume ∧/∨ Buttons
- Press Volume ∧ to increase the volume, ∨ to decrease.

QUICK SET UP GUIDE

Hitachi Video Tape Recorder

VT-M331E(CT)
VT-M335E(VPS)

Dear Hitachi Customer,

Congratulations on your choice of Hitachi video tape recorder (VTR). Welcome to our company-wide commitment to your complete satisfaction and viewing enjoyment.

Before using your Hitachi VTR for the first time, we suggest that you spend a few minutes reading these set-up instructions.
Even if you have never used a VTR before, you can get your VTR connected and preset quickly by following this quick set-up guide.

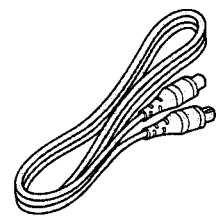
Contents

- Accessories Supplied 1
- Installation 2-3
- Setting the Video Programme Number on Your TV 4
- Setting Your Remote Control Handset 5
- Pre-Tuning the Built in Tuner 6

Accessories Supplied

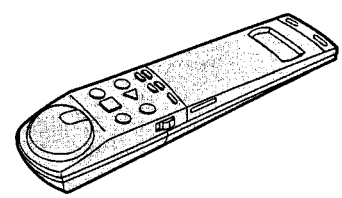
Check and identify the accessories supplied. If any are missing or appear damaged, contact your dealer immediately.

①



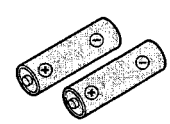
Aerial cable for connecting this VTR and a TV

②



Remote Control Handset

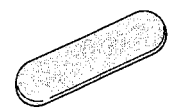
③



2 pcs.

Batteries for remote control handset (R6)

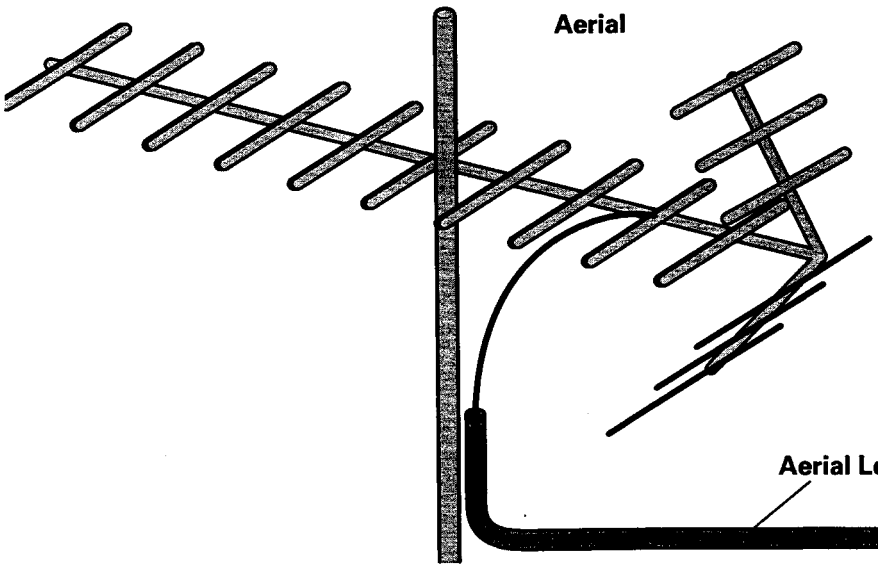
④



Dust preventive cover for VIDEO IN and AUDIO IN sockets on the front of the VTR

VV4709521 © Hitachi, Ltd. 1994

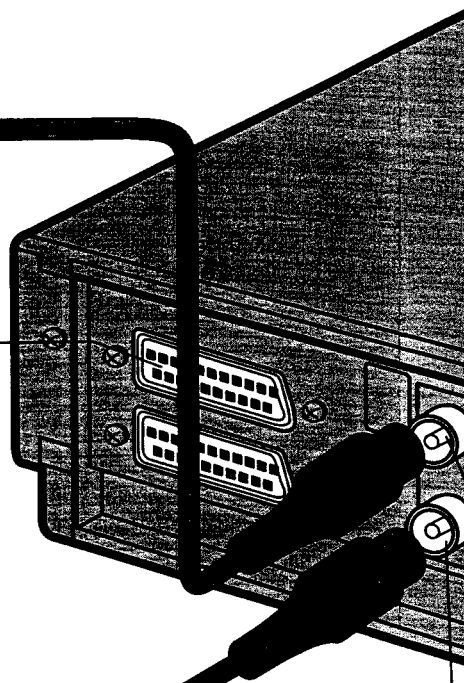
Installation



Aerial Lead

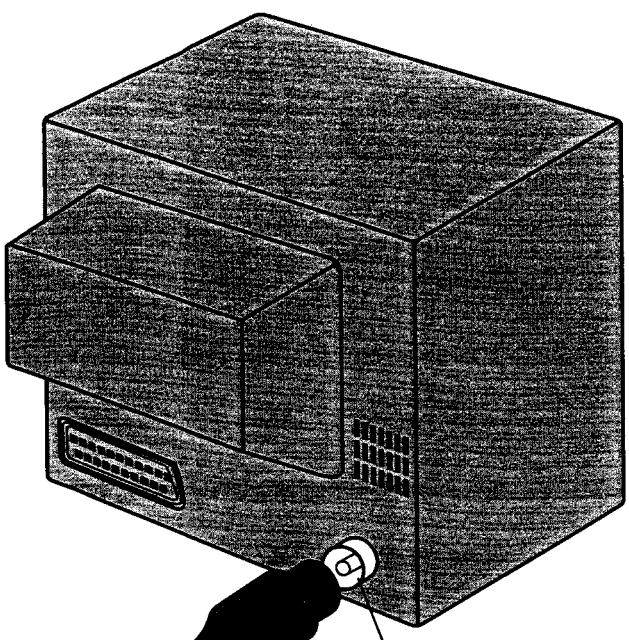
SCART SOCKET

Using a suitable lead (not provided) this socket provides a connection method which can give improved picture and sound quality.
See instruction manual for further details.



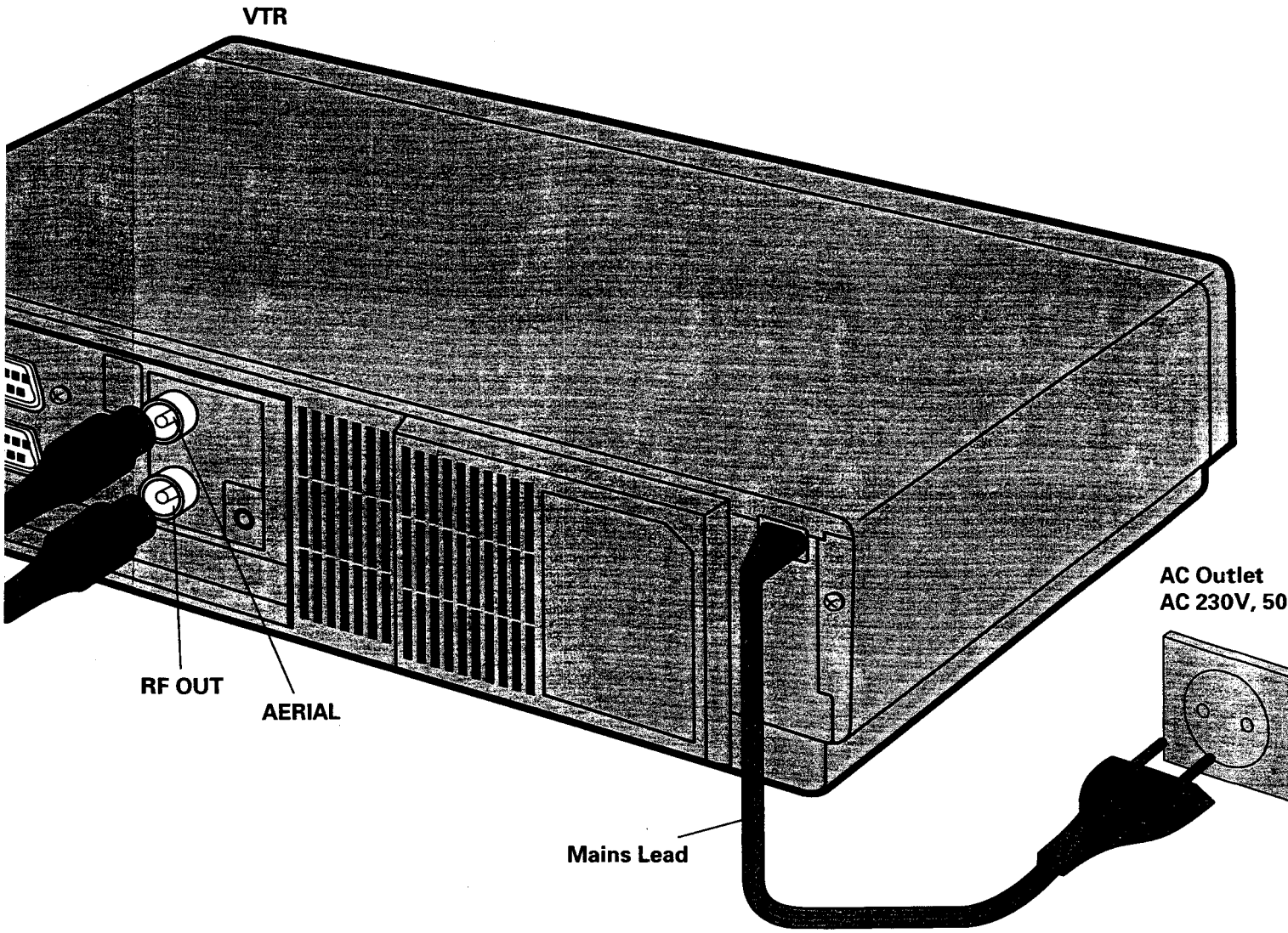
RF O

TV Set

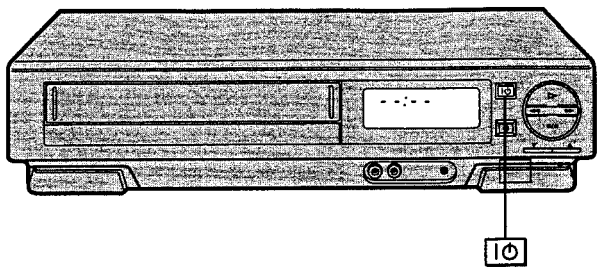


To Aerial IN

Aerial Cable (Supplied)


VTR
RF OUT
AERIAL
AC Outlet
AC 230V, 50
Mains Lead

Setting the Video Programme Number on Your TV



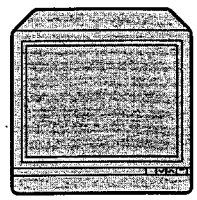
VTR TV

Switch on at the mains supply socket.

Video display after connecting the mains supply (**Note:** The VTR will be in the standby mode at this stage.)

If the display shows as in step 4 (shows TV programme number, tape speed indicator and VTR indicator), press the button ⏻ on the VTR once.

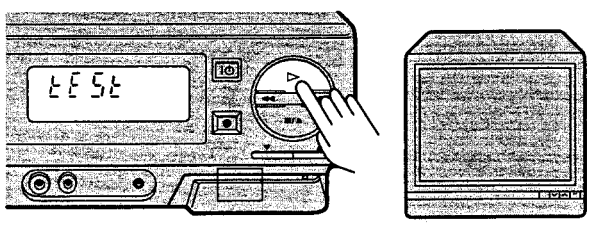
1



Switch on your TV and select an unused UHF programme number. (Please consult your TV operating guide as your TV may have a special VTR programme number which must be used.)

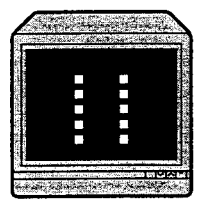
Note: This programme number will be your VTR programme from now on.

2



Press the button ▷ (**Note:** The VTR is still in the standby mode) and " tESt " appears as shown in the display.

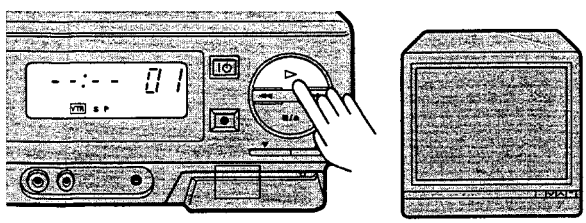
3



Tune your TV (consult your TV instruction manual) until the test pattern shown appears.

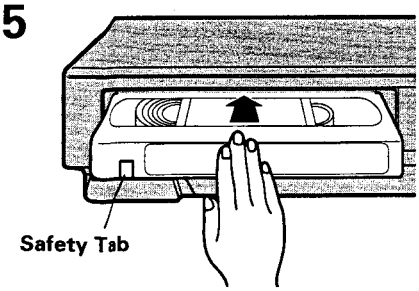
The correct tuning position is when the picture is clear. Ensure this programme is stored on your TV.

4



Press the button ▷ again, the test pattern will disappear and the VTR will now come out of the stand by mode into the operate mode.

5



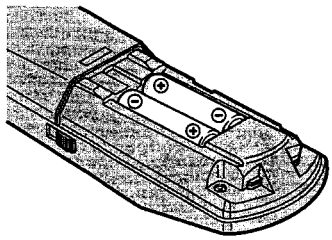
You should now be able to play-back a pre-recorded cassette.

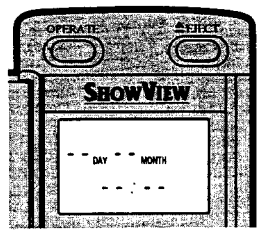
Insert the cassette as shown. If the safety tab is removed then play-back will start immediately, if not press the button ▷ and the picture will appear on the screen.

IMPORTANT:

Insert the cassette squarely into the VTR. Push the cassette until the machine carries the cassette in itself. Never force a cassette in as this may damage the mechanism.

Setting Your Remote Control Handset

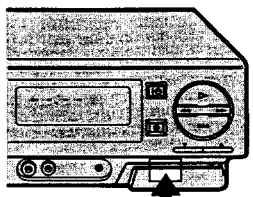


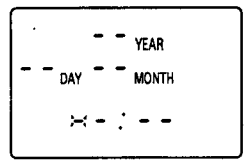


Remove battery cover of the remote control handset.
Insert the two batteries provided.
Ensure the + and – ends of the batteries connect to the + and – signs of the battery compartment.

Initial display after inserting the batteries

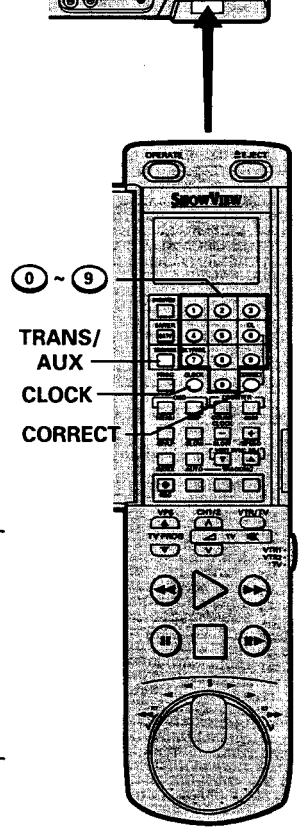
1

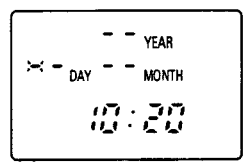




Press the CLOCK button (the first digit flashes).

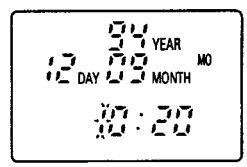
2





Enter the current time using the number keys in 24Hr notation.

e.g. 1 0 2 0 ——→ 10:20 am
2 2 2 0 ——→ 10:20 pm



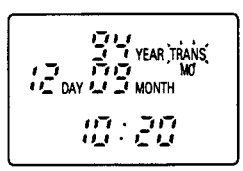
Enter today's date, month and year.

e.g. 1 2 0 9 9 4 ——→ 12th September 1994
2 0 0 3 9 5 ——→ 20th March 1995

The day of the week appears and the first digit of date then flashes.

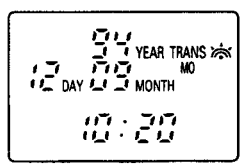
Note: At any stage during the number entry you can correct any errors by pressing the CORRECT button until the incorrect digit flashes, then you can enter the correct number.

3



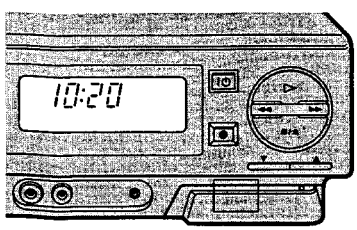
Press the CLOCK button.
TRANS now appears in the display.

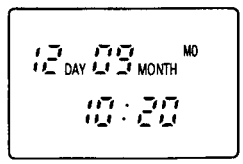
4



Point the handset at your VTR, **press the TRANS/AUX button.**
The time will appear on the VTR display.

5



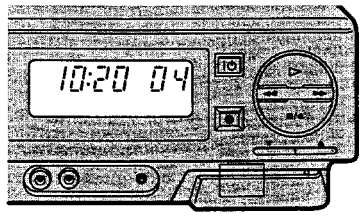


Press the CLOCK button.
The handset and the VTR clock have now been set up.

Pre-Tuning the Built in Tuner

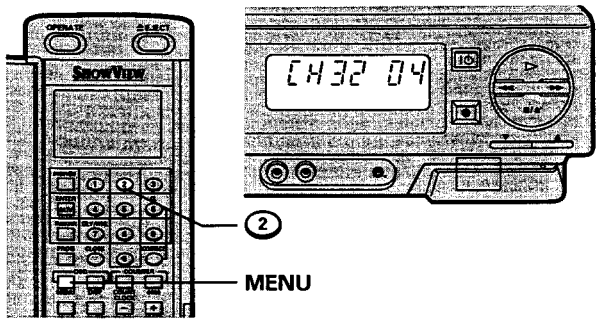
Starting Point (after setting the video channel as described on page 4.)

1



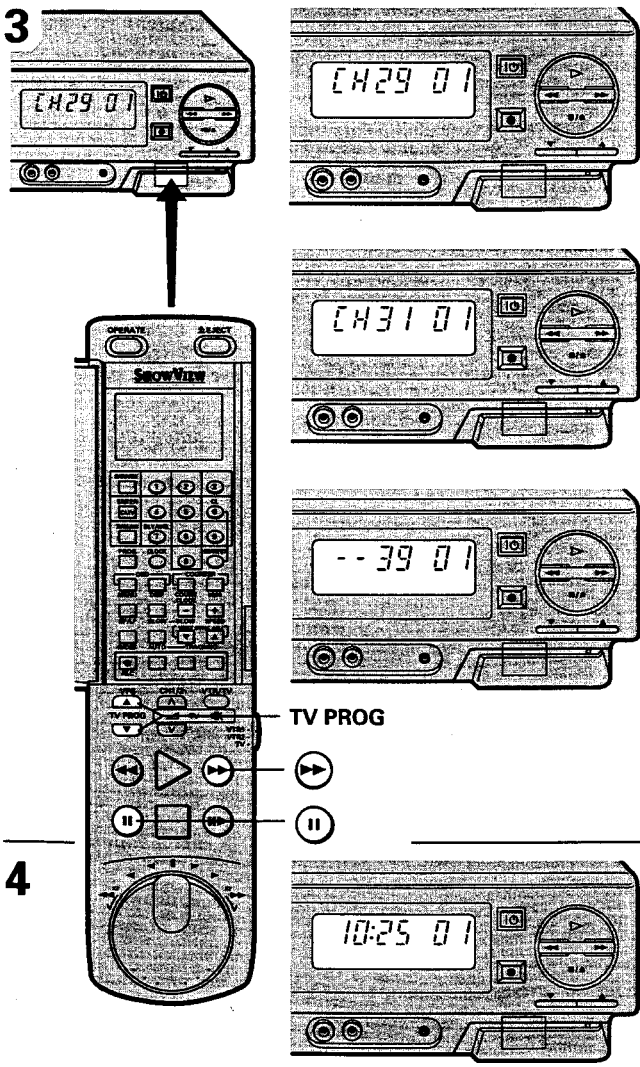
Press the EJECT button on the handset to stop and eject the VTR cassette.
Ensure the VTR is in the operate mode (VTR display is as shown).
Make sure TV is set to the VTR programme number as described on page 4.

2



Press the MENU button, and then press "2" button for channel setting.

3



Using the TV PROG buttons select the programme number on the VTR for the channel you wish to set.

Press the ⏩ button on the handset and the VTR will start search for a channel.
The VTR will stop searching when a strong channel is found. If this is not the correct channel press the ⏩ button again until the correct channel is found.

Press the ⏸ button on the handset to store the channel on this programme number.

Select the next VTR programme number using the TV PROG buttons on the handset and repeat the steps above to tune in the other channels.

4

Press the MENU button twice to set the VTR to the normal operating mode.

You have now completed the pre-tuning of the built in tuner.